

Remarks

Claims 1-4, 6, 8-11, 15-17, 20, 25-27 and 29-35 are pending and rejected. Claims 1, 3, 6, 10, 29 and 31 are amended to more particularly point out and distinctly claim Applicants' invention.

The Examiner rejected Claims 1-4, 6, 8-11, 15-17, 20, 25-27 and 29-35 under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent Application Publication 2002/0004848 ("Droge") and *Applied Cryptography*, 2nd Edition ("Schneider"), the Examiner relying on Schneider to show features inherent in the Data Encryption Standard ("DES").

Applicants respectfully traverse the Examiner's rejection. As amended, Claim 1 recites the second encryption algorithm is applied in a manner such that the data packet is decrypted at the other end of the wireless link and prior to the gateway forwarding to the wide area network:

1. A method for transmitting data over a wireless link to a gateway providing access to a wide area network, the method comprising:

encrypting a payload according to a first encryption algorithm;

adding a header to the encrypted payload to form a data packet;

encrypting the encrypted payload and the header of the data packet according to a second encryption algorithm, the second encryption algorithm being an encryption algorithm used for secured communications over the wireless link, such that the data packet is decrypted according to the second encryption algorithm at the other end of the wireless link and prior to the gateway forwarding to the wide area network; and


transmitting the encrypted data packet over the wireless link to the gateway.

Using this scheme, as explained in Applicant's Specification, at page 5, lines 23-27, having the data packet transmitted over the wide area network (as described at Applicants' Specification, at page 2, lines 8-14) is prevented. Further, as explained in Applicants' Specification, at page 3, lines 8-18, that a payload encryption method according to each of the claims is low-overhead, and is particularly advantageous in a wireless link because it allows standard IP operations, such as routing or segmentation independent of the type of wireless network over which the data packet is being transmitted.

Claim 1, as amended, is neither disclosed nor suggested by Droge. Under Droge's scheme, such as shown in Droge's Figs. 3, 5 and 6, and explained in the accompanying text, data is transmitted over the wide area network twice-encrypted. To modify Droge such that data is encrypted only once would defeat Droge's purpose, which is to provide additional security in data transmitted over the wide area network (see, for example, Droge's discussion at col. 2, paragraphs 10-11. Accordingly, Applicants respectfully submit that Claim 1 and its dependent Claims 2-4 are each allowable over Droge. Like, as independent Claims 6, 10 and 29 each recite a similar limitation, Claims 6, 10 and 29 and their respective dependent Claims 8-9, 11, 15-17, 20, 25-27 and 30-35 are each allowable over Droge. Reconsideration and allowance of Claims 1-4, 6, 8-11, 15-17, 20, 25-27 and 29-35 are therefore requested.

Accordingly, all pending claims (i.e., Claims 1-4, 6, 8-11, 15-17, 20, 25-27 and 29-35) are believed allowable and their allowance respectfully requested. If the Examiner has any question regarding the above, the Examiner is respectfully requested to telephone the undersigned Attorney for Applicant at 408-392-9250.


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